

UNIVERSITY SCIENCE AND **ENGINEERING** COMPLEX

(SEC)

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V 215.446.0900 F 215.446.0901 ballinger-ae.com



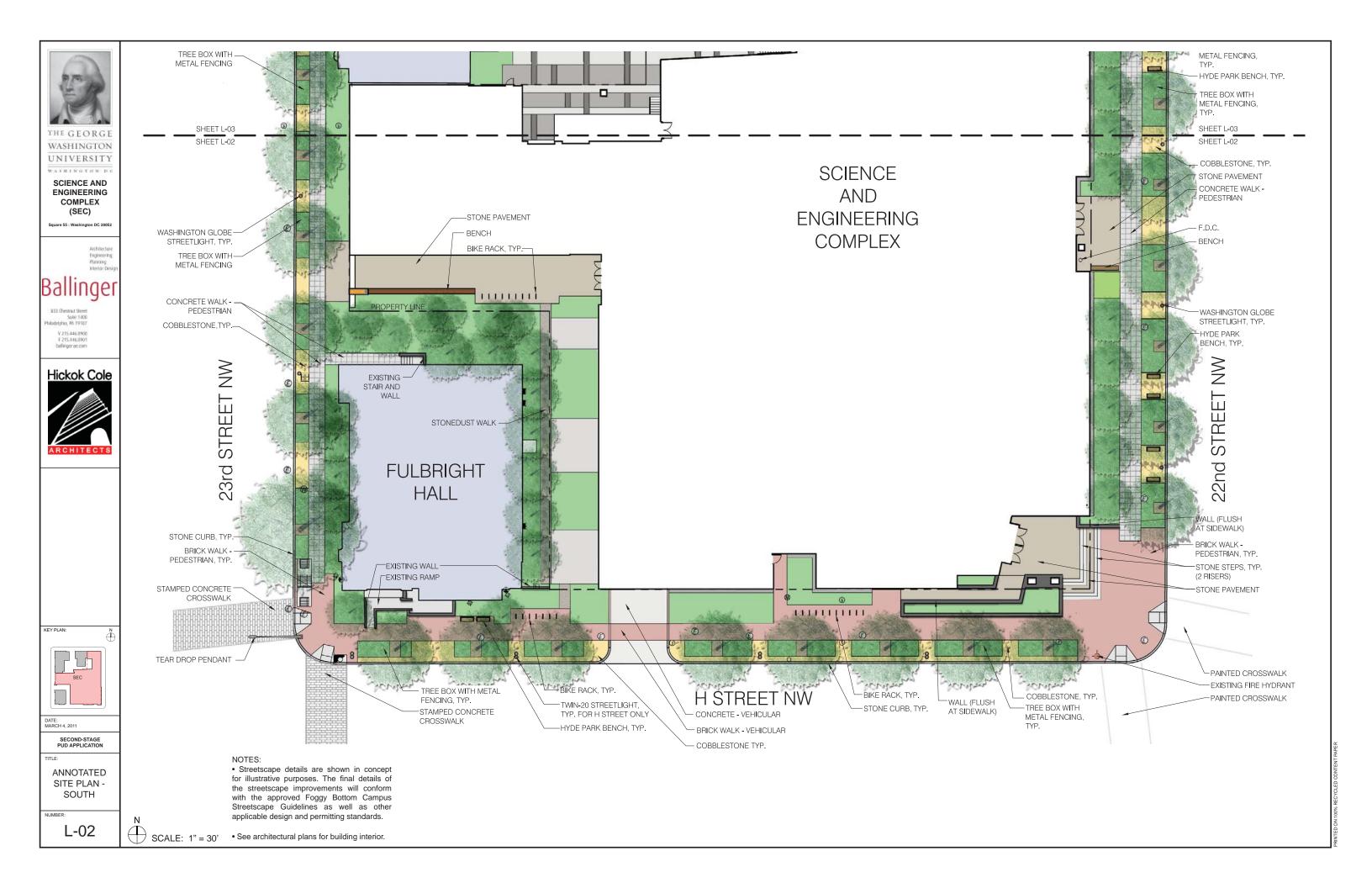


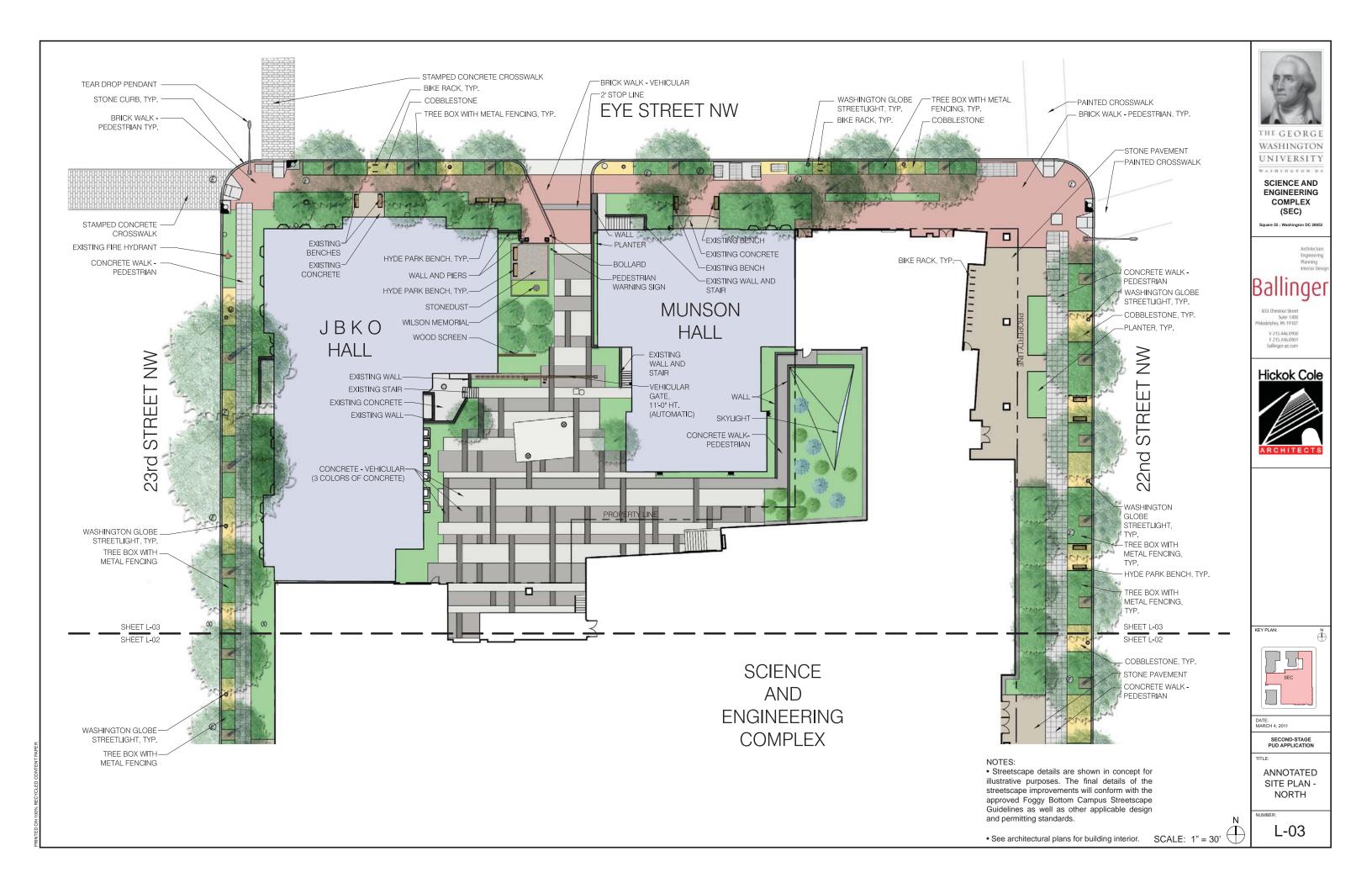
SECOND-STAGE PUD APPLICATION

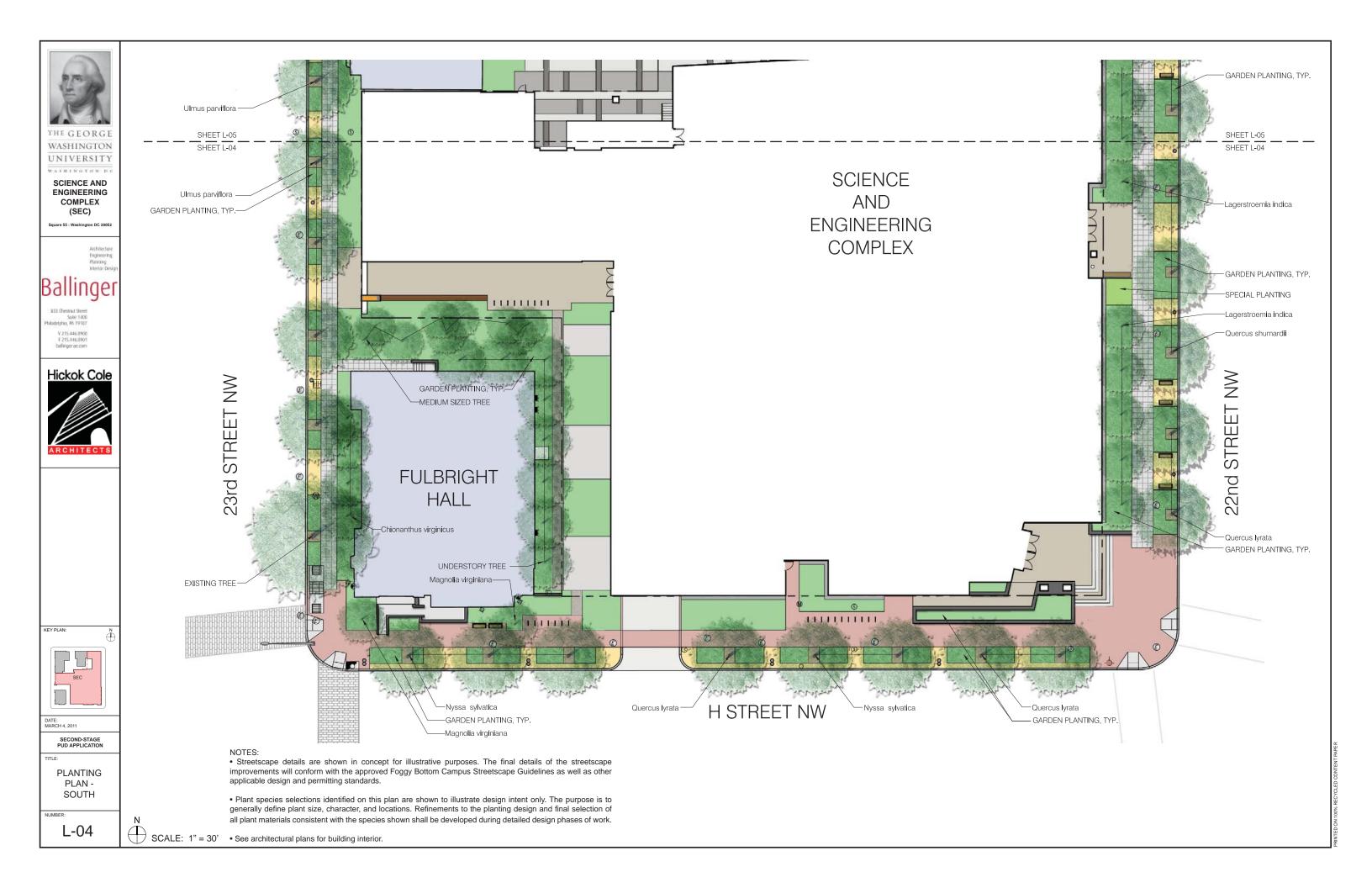
ILLUSTRATIVE SITE PLAN

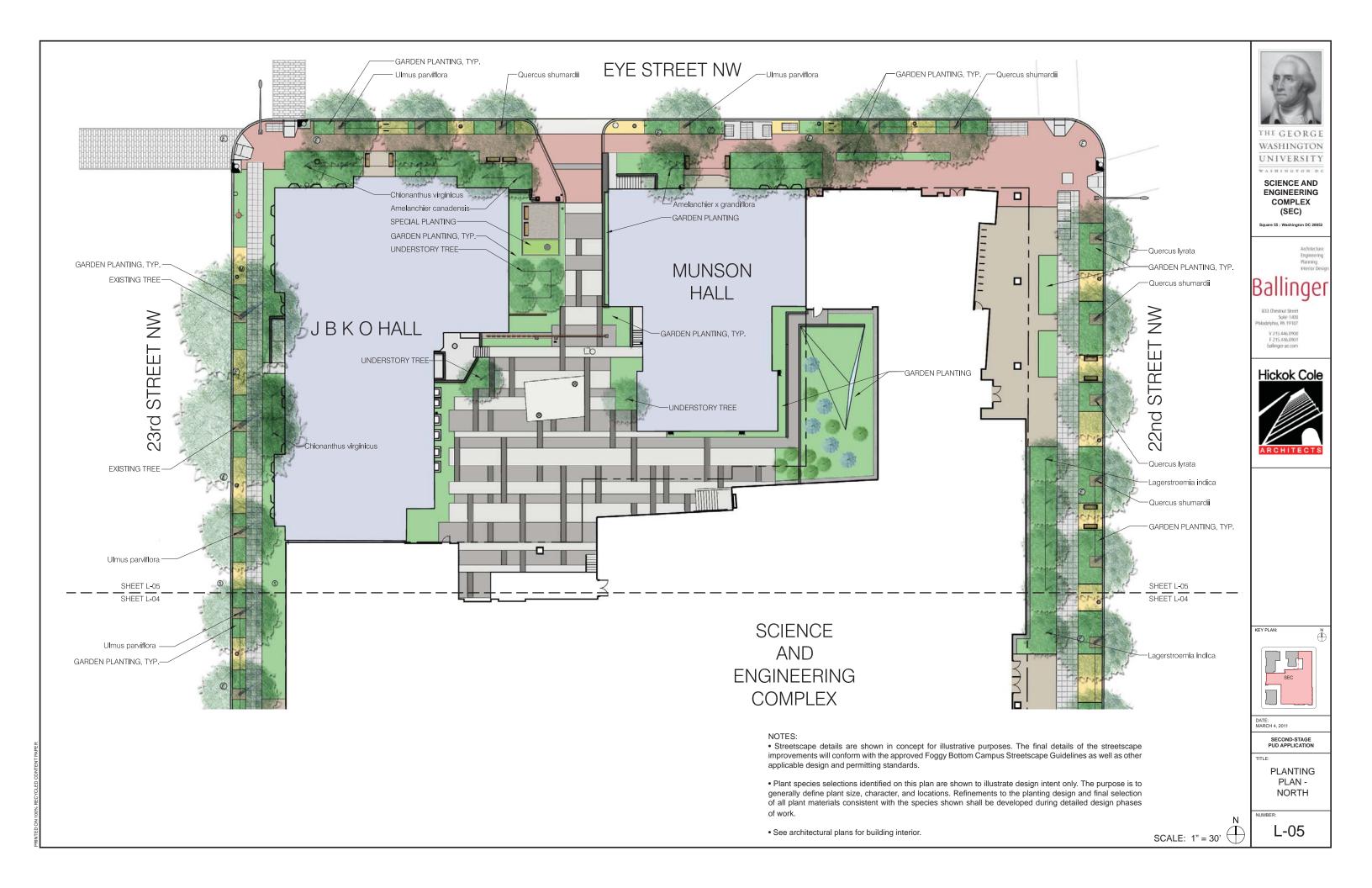
L-01

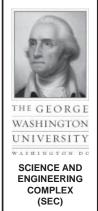
SCALE: 1" = 50'











Square 55 : Washington DC 20052

Architecture Engineering Planning

Ballinger

833 Chestout Street Suite 1400 Philadelphia, PA 19107 V 215 446,0901 F 215,446,0901 ballinger-ae,som



KEY PLAN:

DATE:

SECOND-STAGE PUD APPLICATION

TITLE:

SITE FURNISHINGS

NUMBER:

L-06







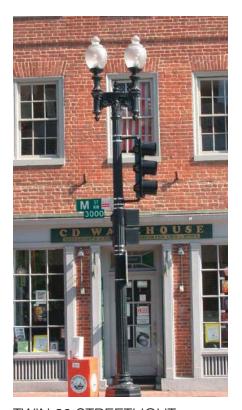
BIKE RACK



WASHINGTON GLOBE STREETLIGHT

NOTE:

 Streetscape details are shown in concept for illustrative purposes. The final details of the streetscape improvements will conform with the approved Foggy Bottom Campus Streetscape Guidelines as well as other applicable design and permitting standards.



TWIN 20 STREETLIGHT

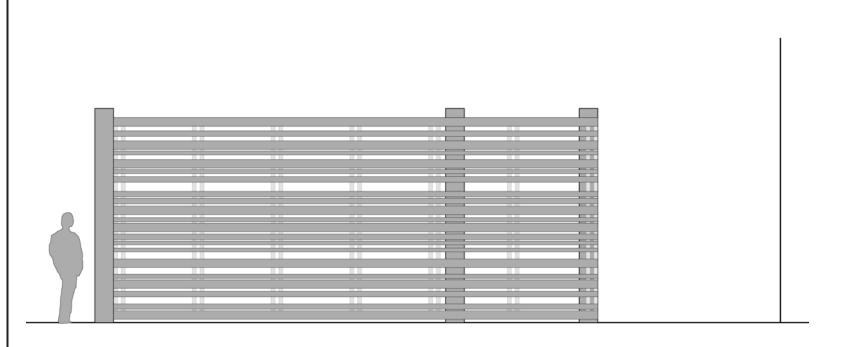


TEAR DROP PENDANT STREETLIGHT



TREE BOX FENCING

PRINTED ON 100% RECYCLED CONTE



GATE ELEVATION

NOT TO SCALE

NOTES

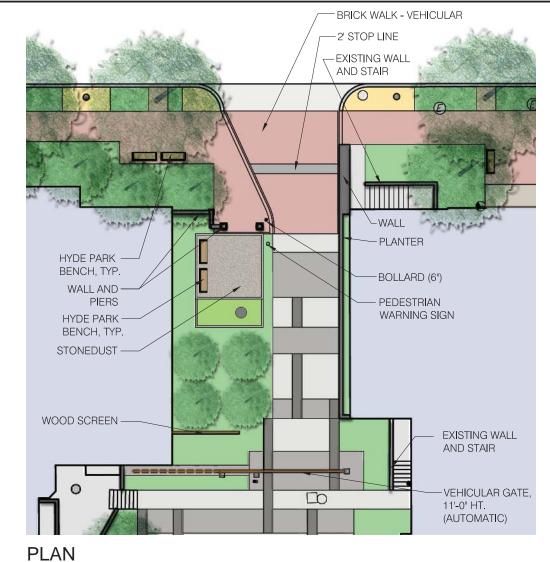
• Streetscape details are shown in concept for illustrative purposes. The final details of the streetscape improvements will conform with the approved Foggy Bottom Campus Streetscape Guidelines as well as other applicable design and permitting standards.

See architectural plans for building interior.









THE GEORGE
WASHINGTON
UNIVERSITY
WASHINGTON BC
SCIENCE AND
ENGINEERING
COMPLEX
(SEC)
Square 55: Washington DC 20052

Planning Interior Design

833 Chestnut Street Suite 1400 hiladelphia, PA 19107

V 215.446.0900 F 215.446.0901 ballinger-ae.com



KEY PLAN:

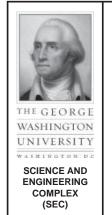
DATE: MARCH 4, 2011

> SECOND-STAGE PUD APPLICATION

EYE STREET POCKET PARK

NUMBER:

L-07



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Quercus lyrata (Overcup Oak)



Quercus shumardii (Shumard Oak)



Ulmus parviflora (Chinese Elm)



Nyssa sylvatica (Blackgum)



Amelanchier canadensis (Canadian Serviceberry)



Amelanchier x grandiflora (Apple Serviceberry)



Lagerstroemia indica (Crape Myrtle)



Magnolia virginiana (Sweetbay Magnolia)



Chionanthus virginicus (Fringe Tree)



Garden Planting

Botanical Name	Common Name
Hosta	Plantain Lily
llex glabra	Inkberry Holly
Liriope muscari	Liriope
Nandina domestica	Heavenly Bamboo
Pennisetum alopecuroides	Fountain Grass
Osmunda cinnamomea	Cinnamon fern
Panicum virgatum	Switchgrass
Prunus laurocerasus	Cherry Laurel
Rosa 'Knockout'	Knockout Rose

- Streetscape details are shown in concept for illustrative purposes. The final details of the streetscape improvements will conform with the approved Foggy Bottom Campus Streetscape Guidelines as well as other applicable design and permitting standards.
- Plant species selections identified on this plan are shown to illustrate design intent only. The purpose is to generally define plant size, character, and locations. Refinements to the planting design and final selection of all plant materials consistent with the species shown shall be developed during detailed design phases of work.

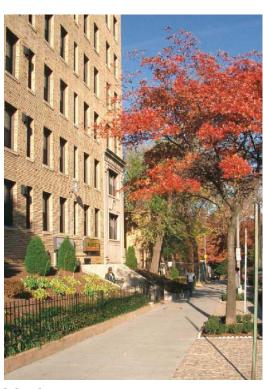
SECOND-STAGE PUD APPLICATION

PLANTING

L-08



COBBLESTONE (Located on 22nd Street, 23rd Street, H Street and Eye Street)



CONCRETE WALK (Located on 22nd Street and 23rd Street)



BRICK WALK (Located on H Street and Eye Street)



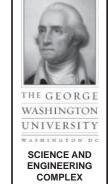
STONE PAVEMENT (Located at building entrances)







COLORED CONCRETE (Located in sevice courtyard)



(SEC)

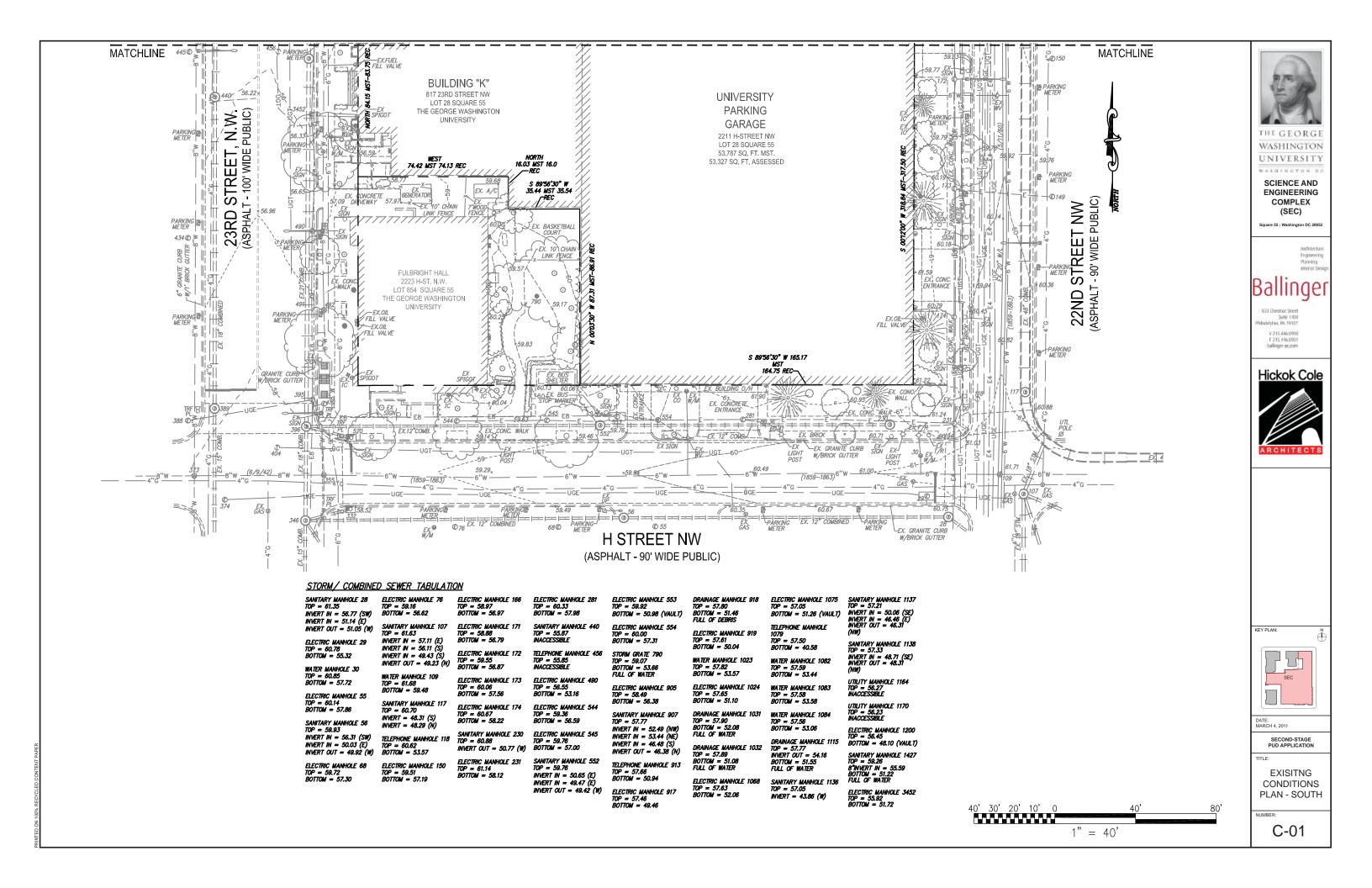
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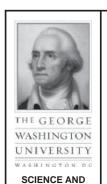


SECOND-STAGE PUD APPLICATION

MATERIALS

L-09



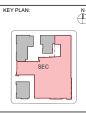


ENGINEERING COMPLEX (SEC)

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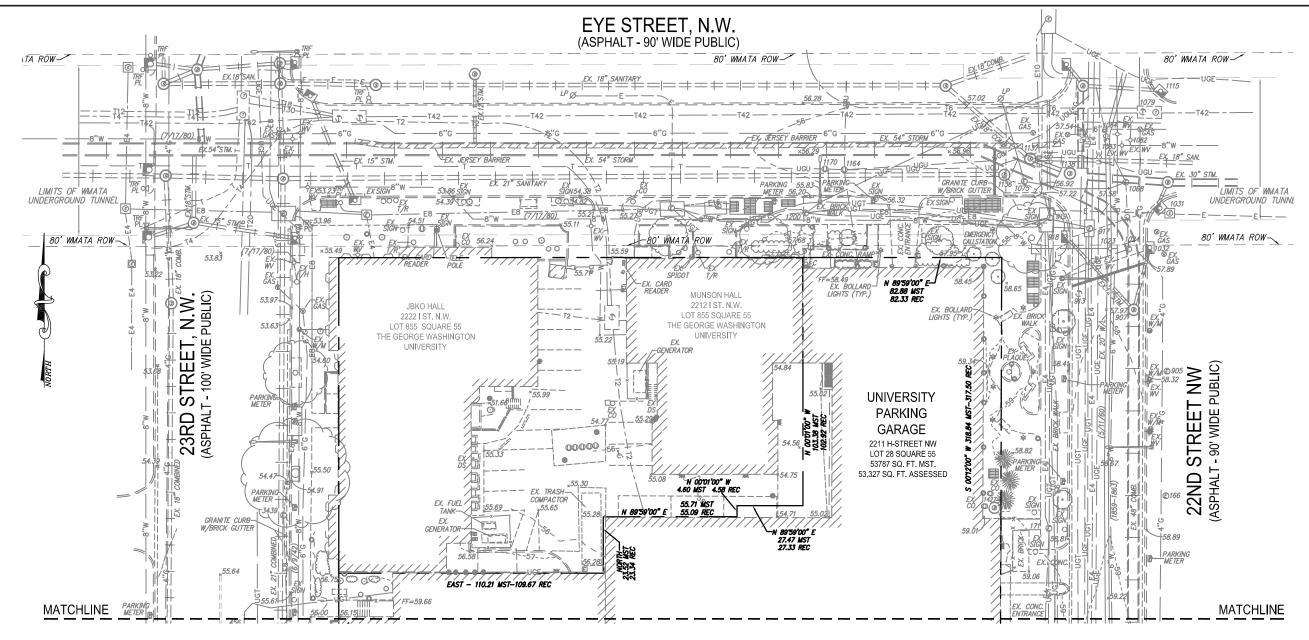


DATE: MARCH 4, 2011

SECOND-STAGE PUD APPLICATION

EXISITNG CONDITIONS PLAN - NORTH

C-02



STORM/ COMBINED SEWER TABULATION

BOTTOM = 56.62

TOP = 61.63

SANITARY MANHOLE 28 TOP = 61.35 INVERT IN = 56.77 (SW) $INVERT\ IN = 51.14\ (E)$ INVERT OUT = 51.05 (W) ELECTRIC MANHOLE 29

ELECTRIC MANHOLE 68 TOP = 59.72

BOTTOM = 57.30

INVERT IN = 57.11 (E) INVERT IN = 56.11 (S) INVERT IN = 49.43 (S) TOP = 60.78 BOTTOM = 55.32 INVERT OUT = 49.23 (N) WATER MANHOLE 30

TOP = 60.85 BOTTOM = 57.72 WATER MANHOLE 109 TOP = 61.68 BOTTOM = 59.48 ELECTRIC MANHOLE 55 TOP = 60.14 BOTTOM = 57.86 SANITARY MANHOLE 117 TOP = 60.70

INVERT = 48.31 (S) INVERT = 48.29 (N) SANITARY MANHOLE 56 TOP = 59.93 INVERT IN = 56.31 (SW) INVERT IN = 50.03 (E) TELEPHONE MANHOLE 118 SANITARY MAN TOP = 60.62 BOTTOM = 53.57 INVERT OUT = 49.92(W)

ELECTRIC MANHOLE 150 TOP = 59.51 BOTTOM = 57.19

ELECTRIC MANHOLE 166 TOP = 58.97 BOTTOM = 56.97

ELECTRIC MANHOLE 171 TOP = 58.88 BOTTOM = 56.79 SANITARY MANHOLE 107 ELECTRIC MANHOLE 172 TOP = 59.55 BOTTOM = 56.87

ELECTRIC MANHOLE 173

ELECTRIC MANHOLE 174 TOP = 60.67 BOTTOM = 58.22 TOP = 60.88 TOP = 59.76
INVERT OUT = 50.77 (W) BOTTOM = 57.00

ELECTRIC MANHOLE 231 TOP = 61.14 BOTTOM = 58.12

ELECTRIC MANHOLE 281 TOP = 60.33BOTTOM = 57.98

SANITARY MANHOLE 440 TOP = 55.87INACCESSIBLE

TELEPHONE MANHOLE 456 INACCESSIBLE

ELECTRIC MANHOLE 490 TOP = 56.55 BOTTOM = 53.16ELECTRIC MANHOLE 544

TOP = 59.36 BOTTOM = 56.59 SANITARY MANHOLE 230 ELECTRIC MANHOLE 545

> SANITARY MANHOLE 552 TOP = 59.76 INVERT IN = 50.65 (E) INVERT OUT = 49.42 (W)

ELECTRIC MANHOLE 553 TOP = 59.92 BOTTOM = 50.98 (VAULT)

ELECTRIC MANHOLE 554 ELECTRIC MANHOLE 919

TOP = 57.77 INVERT IN = 52.49 (NW) INVERT IN = 53.44 (NE)

INVERT IN = 35.44 (NE) INVERT OUT = 46.38 (N)

TELEPHONE MANHOLE 913 TOP = 57.66 BOTTOM = 50.94

ELECTRIC MANHOLE 917 TOP = 57.46 BOTTOM = 49.46

STORM GRATE 790 TOP = 59.07 BOTTOM = 53.66 FULL OF WATER WATER MANHOLE 1023 TOP = 57.82 BOTTOM = 53.57

FLECTRIC MANHOLE 1024 TOP = 57.65 BOTTOM = 51.10TOP = 58.49 BOTTOM = 56.38 SANITARY MANHOLE 907 TOP = 57.77

DRAINAGE MANHOLE 1031 TOP = 57.90 BOTTOM = 52.08 FULL OF WATER DRAINAGE MANHOLE 1 TOP = 57.89 BOTTOM = 51.08 FULL OF WATER

ELECTRIC MANHOLE 1068 TOP = 57.63 BOTTOM = 52.06

ELECTRIC MANHOLE 1075 SANITARY MANHOLE 1137 TOP = 57.05 FOR TOP = 57.21 SANITARY MANHOLE 1137 TOP = 57.21 SA DRAINAGE MANHOLE 918
TOP = 57.80
BOTTOM = 51.46
FULL OF DEBRIS

ELECTRIC MANHOLE 1075
TOP = 57.05
BOTTOM = 51.26 (VAULT)

1079 TOP = 57.50 BOTTOM = 40.58

WATER MANHOLE 1082 TOP = 57.59 BOTTOM = 53.44 WATER MANHOLE 1083

BOTTOM = 53.58WATER MANHOLE 1084 TOP = 57.56 BOTTOM = 53.06

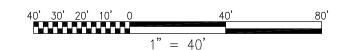
DRAINAGE MANHOLE 1115 TOP = 57.77 INVERT OUT = 54.16 BOTTOM = 51.55 FULL OF WATER

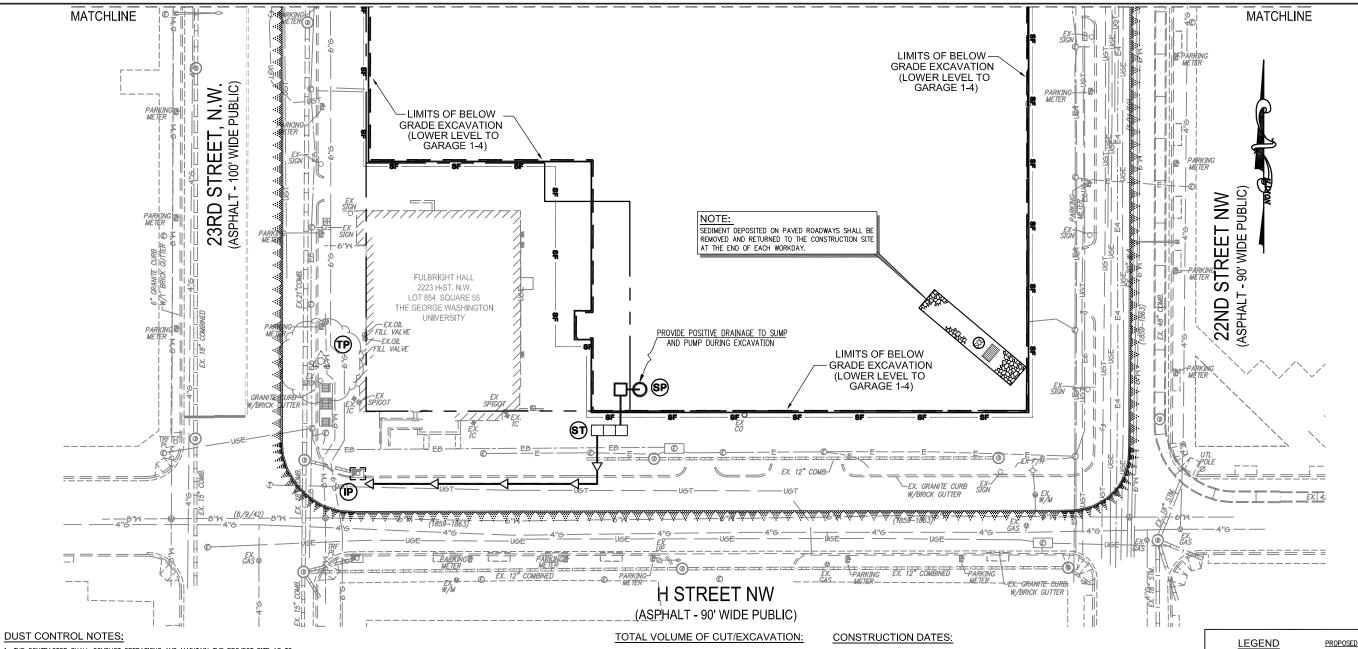
SANITARY MANHOLE 1136 INVERT = 43.86 (W)

SANITARY MANHOLE 1138 TOP = 57.33 INVERT IN = 48.71 (SE) INVERT OUT = 48.31

ELECTRIC MANHOLE 1200 TOP = 56.45 BOTTOM = 48.10 (VAULT) SANTARY MANHOLE 1427 TOP = 59.26 8*WVERT IN = 55.59 BOTTOM = 51.22 FULL OF WATER

ELECTRIC MANHOLE 3452 TOP = 55.92 BOTTOM = 51.72





- 1. THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE PROJECT SITE AS TO MINIMIZE THE CREATION AND DISPERSION OF DUST. DUST CONTROL SHALL BE USED THROUGHOUT THE WORK AT THE SITE.
- 2. THE CONTRACTOR MUST PROVIDE CLEAN WATER, FREE FROM SALT, OIL AND OTHER DELETERIOUS MATERIAL TO BE USED FOR ON-SITE DUST CONTROL
- 3. THE CONTRACTOR SHALL SUPPLY WATER SPRAYING EQUIPMENT CAPABLE OF ACCESSING ALL WORK AREAS.
- 4. THE CONTRACTOR SHALL IMPLEMENT STRICT DUST CONTROL MEASURES DURING ACTIVE CONSTRUCTION PERIODS ON-SITE. THESE CONTROL MEASURES WILL GENERALLY CONSIST OF WATER APPLICATIONS THAT SHALL BE APPLIED A MINIMUM OF ONCE PER DAY DURING DRY WEATHER OR MORE OFTEN AS REQUIRED TO PREVENT DUST EMISSIONS.
- 5. FOR WATER APPLICATION TO UNDISTURBED SOIL SURFACES, THE CONTRACTOR SHALL:
 A. APPLY WATER WITH EQUIPMENT CONSISTING OF TANK, SPRAY BAR, PUMP WITH
- DISCHARGE PRESSURE GAUGE;
 B. ARRANGE SPRAY BAR HEIGHT, NOZZLE SPACING AND SPRAY PATTERN TO PROVIDE COMPLETE COVERAGE OF GROUND WITH WATER;
- C. DISPERSE WATER THROUGH NOZZLES ON SPRAY BAR AT 20 PSI (137.8 K PA) MINIMUM. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING. 6. FOR WATER APPLICATION TO SOIL SURFACES DURING DEMOLITION AND/OR EXCAVATION, THE CONTRACTOR SHALL:
- A. APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH DISCHARGE GAUGE, HOSES AND MIST NOZZLES;

 B. LOCATE TANK AND SPRAYING EQUIPMENT SO THAT THE ENTIRE EXCAVATION AREA CAN
- BE MISTED WITHOUT INTERFERING WITH DEMOLITION AND/OR EXCAVATION EQUIPMENT OR OPERATIONS. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS
- C. APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND SITE

CONSTRUCTION AND STABILIZATION SEQUENCE:

- 1. INSTALL SEDIMENT AND EROSION CONTROL MEASURES INCLUDING STABILIZED
 TREE PROTECTION, AND SILT FENCE AS INDICATED ON SHEET C-03. SEE SHEET C-10 FOR SEDIMENTATION AND EROSION CONTROL DETAILS.
- 2. SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND APPROVED BY THE INSPECTOR PRIOR TO COMMENCING ANY OTHER LAND DISTURBING ACTIVITIES.

- 3. REMOVE ITEMS AS INDICATED ON DEMOLITION PLAN.
- 4. INSTALL SITE IMPROVEMENTS AS INDICATED ON CONSTRUCTION DOCUMENTS FOR THE
- 5. AT THE COMPLETION OF CONSTRUCTION AND AFTER THE INSPECTOR'S APPROVAL, ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE REMOVED

SEDIMENTATION EROSION CONTROL NOTE:

THE APPLICANT MUST NOTIFY THE DEPARTMENT OF HEALTH BY PHONE (202–535–2240) AT LEAST 24 HOURS PRIOR TO THE START OF GRADING ACTIVITY AND WITHIN (2) WEEKS AFTER COMPLETION OF PROJECT TO REQUEST INSPECTION. IF THERE IS NEED TO MAKE CHANGES OR MODIFICATIONS IN THE APPROVED DESIGN, DEPARTMENT OF HEALTH MUST BE

SCHEDULE AND HOLD PRE-CONSTRUCTION MEETING WITH THE SEDIMENT CONTROL INSPECTOR 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY. CALL 202-535-2977 FOR

NOTE:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF SHEETING AND SHORING AND SUPPORT OF EXISTING UTILITIES AND ADJACENT STRUCTURES. SHORING, BRACING, AND UNDERPINNING DESIGNED BY THE CONTRACTOR'S STRUCTURAL ENGINEER LICENSED IN THE DISTRICT OF COLUMBIA SHALL BE PROVIDED AS NECESSARY TO ENSURE THEIR SUPPORT.
- PROVIDE SILT FENCE AT PERIMETER OF EXCAVATION AREA TO REMAIN IN PLACE UNTIL BELOW GRADE EXCAVATION HAS BEGUN UNLESS OTHERWISE APPROVED BY THE INSPECTOR.
- 3. CONTRACTOR TO PROVIDE ON SITE APPROVED STAMPED AND SIGNED SEDIMENTATION AND EROSION CONTROL DRAWINGS BY DEPARTMENT OF HEALTH, WATERSHED PROTECTION DIVISION.

LEVEL	AREA OF EXCAVATION	ELEVATION	DEPTH
LEVEL 1	8,596.93 SF	42.25 FT.	17.00 FT.
LEVEL 2	8,596.93 SF	26.25 FT.	16.00 FT.

VOLUME OF CUT: 8,596.93 SF (AREA) x 33.00' (DEPTH)

VOLUME OF CUT: 10,507.36 CY ±

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LEVEL 1	45,904.97 SF	42.25 FT.	17.00 FT.
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G1	45,904.97 SF	16.25 FT.	10.00 FT.
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G3	45,904.97 SF	– 2.75 FT.	9.5 FT.
G4	45,904.97 SF	- 12.25 FT.	9.5 FT.

VOLUME OF CUT: 45,904.97 SF (AREA) x 72.00' (DEPTH)

VOLUME OF CUT: 122,413.25 CY ±

TOTAL VOLUME OF FILL: 0.00 CY±

* EXACT DATE OF CONSTRUCTION TO BE DETERMINED BY THE OWNER.

TOTAL AREA OF DISTURBANCE

TOTAL AREA OF DISTURBANCE: 54,524 SQUARE FEET OR 1.2516 AC

SEDIMENT CONTROL APPROVAL:

DATE

PLAN NUMBER:
THIS APPROVAL IS FOR GRADING AND SEDIMENT CONTROL ONLY. PERMITTEE/ CONTRACTOR IS REQUIRED TO CONSTRUCT DESIGN FEATURE SHOWN HEREON. HE SHALL NOTIFY THIS OFFICE AT NUMBER LISTED BELOW AT LEAST 24 HOURS BEFORE START OF GRADING ACTIVITY, AND WITHIN TWO WEEKS AFTER COMPLETION OF PROJECT FOR FINAL INSPECTION.

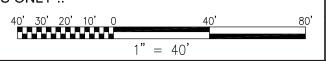
EROSION AND SEDIMENT CONTROL BRANCH

FOR FURTHER INFORMATION, PLEASE CALL:
GOVERNMENT OF THE DISTRICT OF COLUMBIA DISTRICT DEPARTMENT OF ENVIRONMENT WATERSHED PROTECTION DIVISION 1200 1ST-STREET, NE

WASHINGTON, D.C. TEL NO. (202) 535-2240 FAX NO. (202) 535-1364

THIS SHEET IS TO BE USED FOR SEDIMENTATION AND EROSION CONTROL PURPOSES ONLY!!

TOTAL VOLUME OF CUT/EXCAVATION: 132,920.61 CY±



TEMP CONSTRUCTION ENT

WASH RACK

SILT FENCE

INLET PROTECTION

APPROXIMATE LIMIT

OF BELOW GRADE EXCAVATION

APPROXIMATE

LIMIT OF DISTURBANCE

SEDIMENT TANK

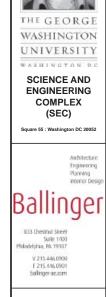
SUMP PUMP

TREE PROTECTION

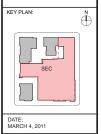
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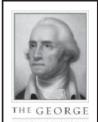






SECOND-STAGE PUD APPLICATION

SEDIMENTATION AND **EROSION CONTROL** PLAN - SOUTH



COMPLEX

UNIVERSITY WASHINGTON D

Ballinger





EROSION CONTROL PLAN - NORTH

C-04



SCIENCE AND **ENGINEERING** (SEC)

F 215,446,090



3. REMOVE ITEMS AS INDICATED ON DEMOLITION PLAN

4. INSTALL SITE IMPROVEMENTS AS INDICATED ON CONSTRUCTION DOCUMENTS FOR THE

AT THE COMPLETION OF CONSTRUCTION AND AFTER THE INSPECTOR'S APPROVAL, ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE REMOVED.

SEDIMENTATION EROSION CONTROL NOTE:

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SCHEDULE AND HOLD PRE-CONSTRUCTION MEETING WITH THE SEDIMENT CONTROL INSPECTOR 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY. CALL 202-535-2977 FOR

NOTE:

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INSTALL SEDIMENT AND EROSION CONTROL MEASURES INCLUDING STABILIZED
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CONSTRUCTION AND STABILIZATION SEQUENCE:

SEDIMENTATION AND EROSION CONTROL DETAILS.

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DELETERIOUS MATERIAL TO BE USED FOR ON-SITE DUST CONTROL

WEATHER OR MORE OFTEN AS REQUIRED TO PREVENT DUST EMISSIONS.

ALL WORK AREAS.

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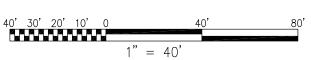
DATE EROSION AND SEDIMENT

FOR FURTHER INFORMATION, PLEASE CALL: GOVERNMENT OF THE DISTRICT OF COLUMBIA DISTRICT DEPARTMENT OF ENVIRONMENT WATERSHED PROTECTION DIVISION 1200 1ST-STREET, NE

WASHINGTON, D.C. TEL NO. (202) 535-2240

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TOTAL VOLUME OF CUT/EXCAVATION: 132,920.61 CY± TOTAL VOLUME OF FILL: 0.00 CY±



LEGEND

TEMP CONSTRUCTION ENTR.

WASH RACK

SILT FENCE

INLET PROTECTION

APPROXIMATE LIMIT

OF BELOW GRADE EXCAVATION

LIMIT OF DISTURBANCE

SEDIMENT TANK

SUMP PUMP

TREE PROTECTION

PROPOSED

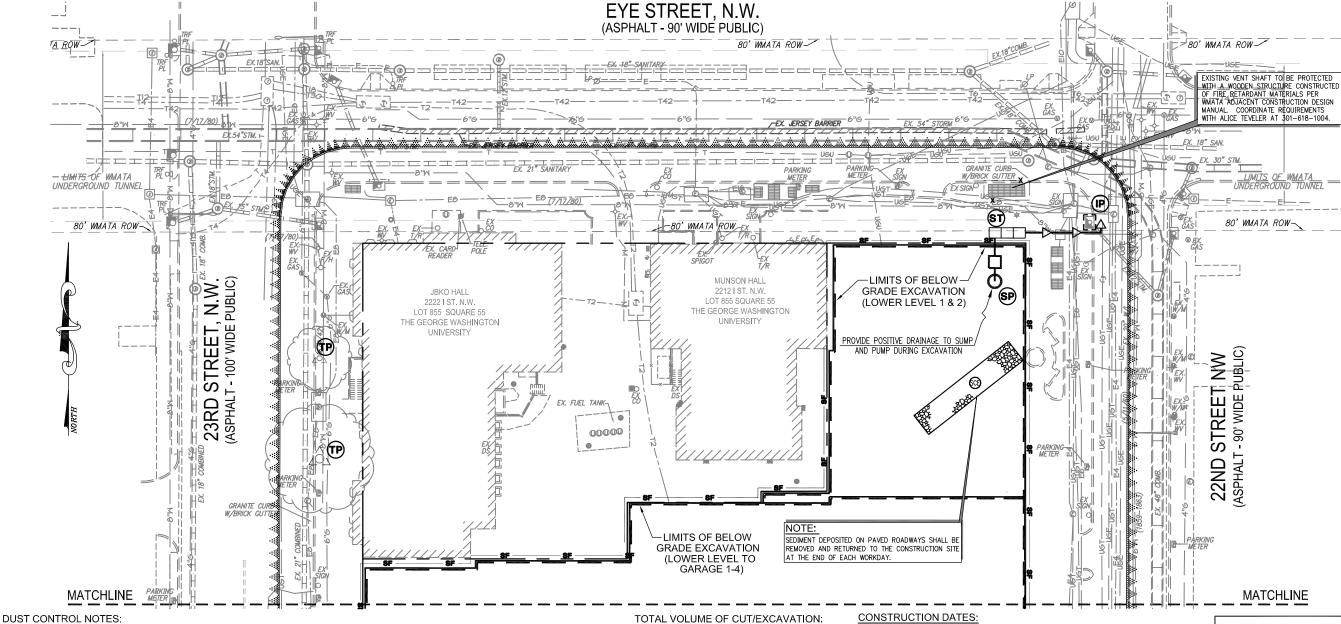
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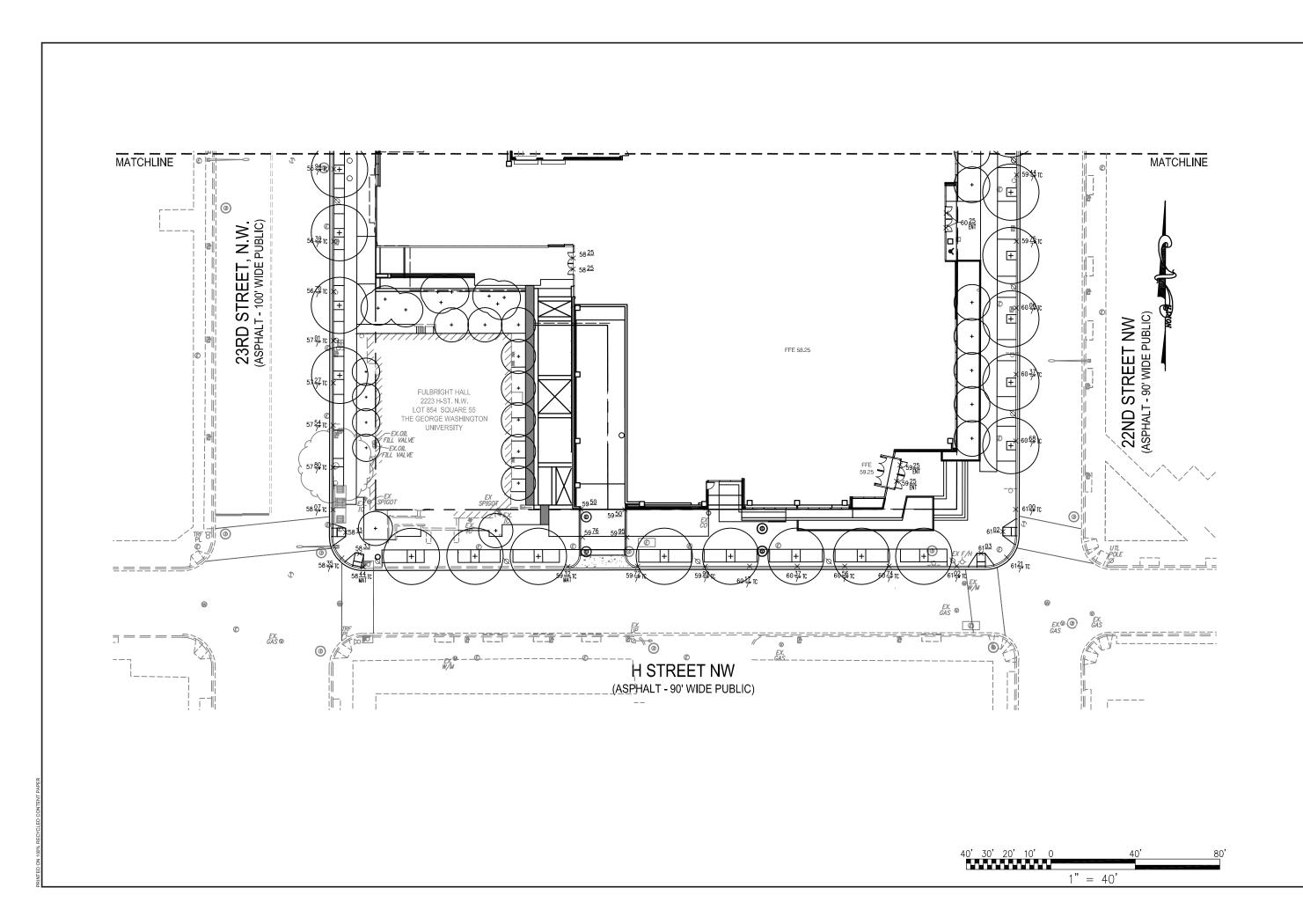
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DATE: MARCH 4, 2011

SECOND-STAGE PUD APPLICATION

SEDIMENTATION AND





WASHINGTON UNIVERSITY

SCIENCE AND ENGINEERING COMPLEX (SEC)

guare 55 : Washington DC 2005

Architecture Engineering Hanning Interior Design

Ballinge

Suite 1400 adelphia, PA 19107 V 215.446.0900 F 215.446.0901 ballinger-as.com



KEY PLAN:



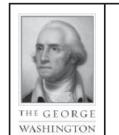
DATE:

SECOND-STAGE PUD APPLICATION

TITLE:

GRADING PLAN SOUTH

NUMBER



UNIVERSITY
WASHINGTON DO

ENGINEERING COMPLEX (SEC)

quare 55 : Washington DC 200

Architecture Engineering Planning Interior Design

Ballinger

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KEY PLAN:



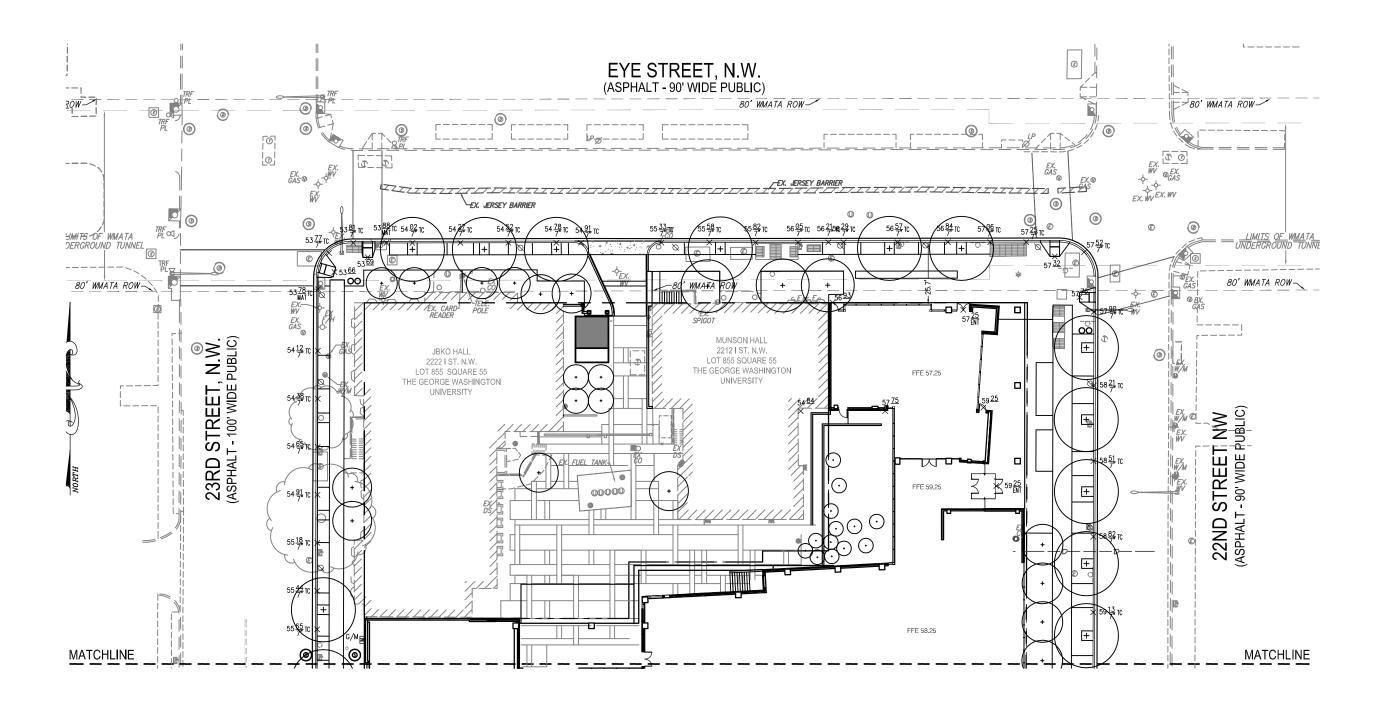
DATE: MARCH 4, 2011

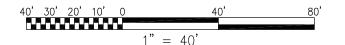
> SECOND-STAGE PUD APPLICATION

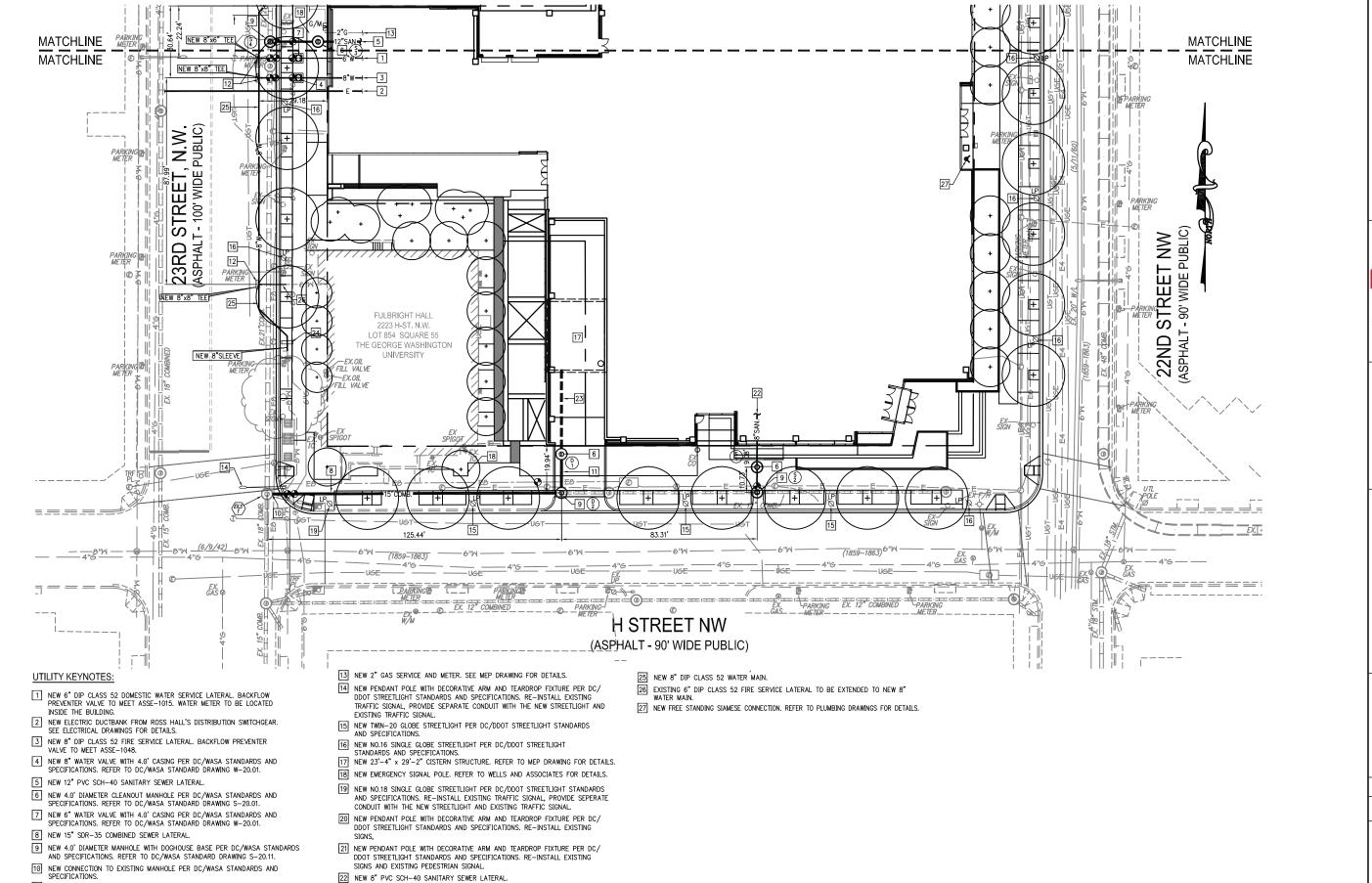
TITLE

GRADING PLAN NORTH

NUMBER:







23 NEW 12" PVC SCH-40 OVERFLOW PIPE. REFER TO PLUMBING DRAWING FOR DETAILS.

NEW IN-LINE THRUST BLOCK PER DC/WASA STANDARDS AND

SPECIFICATIONS, REFER TO DC/WASA STANDARD DRAWING W-40.02.

11 NEW 15" SDR-35 STORM SEWER LATERAL.

REFER TO DC/WASA STANDARD DRAWING W-40.01.

12 NEW CONCRETE THRUST BLOCK PER DC/WASA STANDARDS AND SPECIFICATIONS.

WASHINGTON UNIVERSITY WASHINGTON D SCIENCE AND

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SECOND-STAGE PUD APPLICATION

UTILITY PLAN -SOUTH

1" = 40'

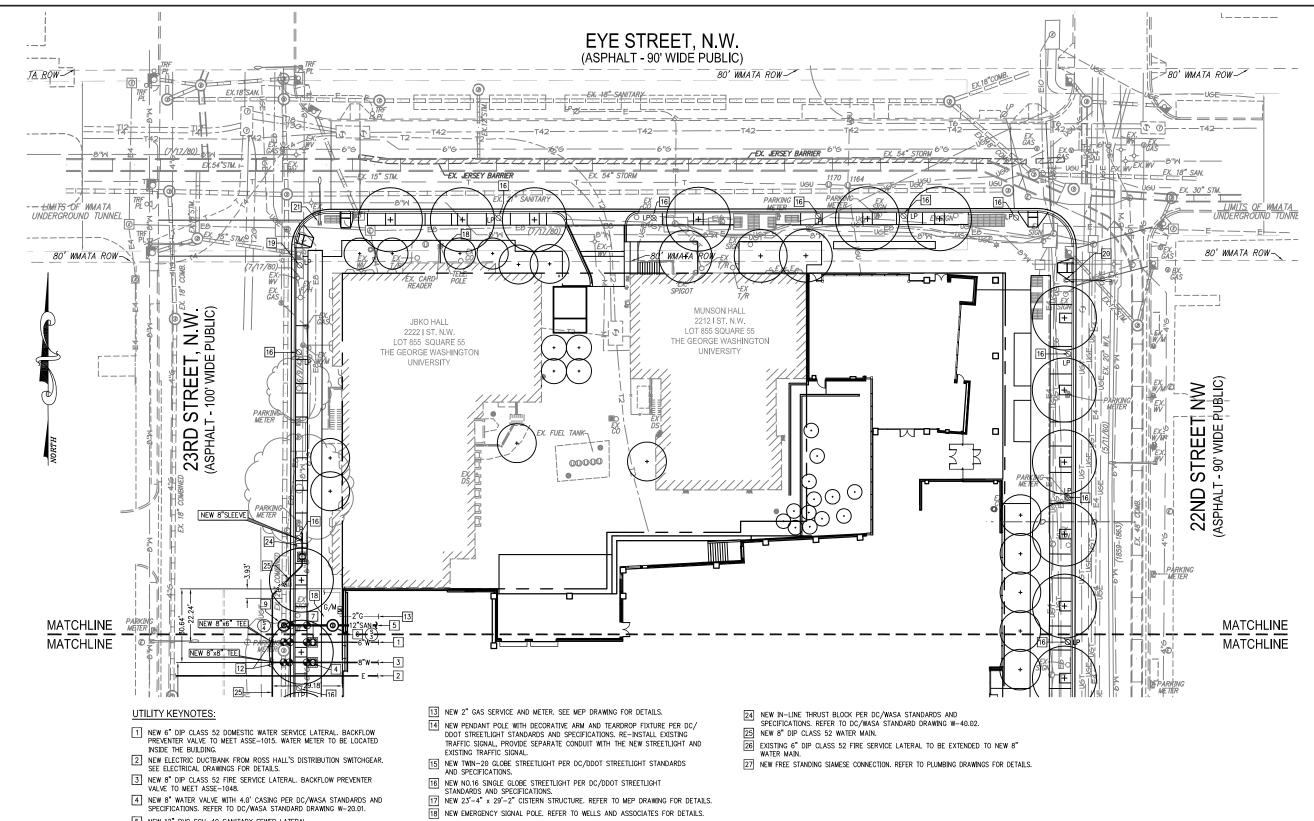




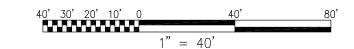


SECOND-STAGE PUD APPLICATION

UTILITY PLAN NORTH



- 5 NEW 12" PVC SCH-40 SANITARY SEWER LATERAL.
- 6 NEW 4.0' DIAMETER CLEANOUT MANHOLE PER DC/WASA STANDARDS AND SPECIFICATIONS. REFER TO DC/WASA STANDARD DRAWING S-20.01.
- 7 NEW 6" WATER VALVE WITH 4.0' CASING PER DC/WASA STANDARDS AND SPECIFICATIONS. REFER TO DC/WASA STANDARD DRAWING W-20.01.
- 8 NEW 15" SDR-35 COMBINED SEWER LATERAL.
- 9 NEW 4.0' DIAMETER MANHOLE WITH DOGHOUSE BASE PER DC/WASA STANDARDS AND SPECIFICATIONS. REFER TO DC/WASA STANDARD DRAWING S-20.11.
- $\fbox{10}$ NEW CONNECTION TO EXISTING MANHOLE PER DC/WASA STANDARDS AND SPECIFICATIONS.
- 11 NEW 15" SDR-35 STORM SEWER LATERAL.
- 12 NEW CONCRETE THRUST BLOCK PER DC/WASA STANDARDS AND SPECIFICATIONS. REFER TO DC/WASA STANDARD DRAWING W-40.01.
- 19 NEW NO.18 SINGLE GLOBE STREETLIGHT PER DC/DDOT STREETLIGHT STANDARDS AND SPECIFICATIONS. RE-INSTALL EXISTING TRAFFIC SIGNAL, PROVIDE SEPERATE CONDUIT WITH THE NEW STREETLIGHT AND EXISTING TRAFFIC SIGNAL.
- 20 NEW PENDANT POLE WITH DECORATIVE ARM AND TEARDROP FIXTURE PER DC/ DDOT STREETLIGHT STANDARDS AND SPECIFICATIONS. RE-INSTALL EXISTING
- [21] NEW PENDANT POLE WITH DECORATIVE ARM AND TEARDROP FIXTURE PER DC/DDOT STREETLIGHT STANDARDS AND SPECIFICATIONS. RE-INSTALL EXISTING SIGNS AND EXISTING PEDESTRIAN SIGNAL.
- 22 NEW 8" PVC SCH-40 SANITARY SEWER LATERAL.
- 23 NEW 12" PVC SCH-40 OVERFLOW PIPE. REFER TO PLUMBING DRAWING FOR DETAILS.



STORMWATER MANAGEMENT CALCULATIONS

TOTAL IMPERVIOUS AREA (Ia) = 56,882 sf or 1.30 ac

SEWER DATA:

Type of sewer: <u>Combined Sewer</u> Size of sewer: <u>Existing 15"</u>

(QUANTITY CONTROL REQUIREMENTS):

Q = C * I * A

where: Q = peak flow

C = runoff coefficient

I = intensity (in/hr) A = drainage area (Ia)

2-YEAR CONTROL (Qpre)

15-YEAR CONTROL (Qpost)

Qpre = (0.35 * 5.28 in./hr. * 1.30 ac)

Qpre = 2.40 cfs

Qpost = (0.90 * 7.56 in./hr. * 1.30 ac)

Qpost = 8.84 cfs

(SHORT-CUT ROUTING):

where: Tc = time of concentration (5 min)

Vscr = 1.25 (Qpost - Qpre) Tc

 $= 1.25 \left[\left(\underline{8.84} - \underline{2.40} \right) (5 \text{ min * } 60 \text{ sec/min}) \right]$

 $V_{scr} = \underline{2,415} \text{ cf} \quad \text{or } \underline{18,064.20} \text{ gallons}$

(DETERMINE WATER QUALITY VOLUME):

where: Vqv = water quality volume to be treated

R (runoff depth) = 0.5 inches (rooftops, sidewalks, pedestrian plaza areas)

Ia = 0.83 ac (impervious area)

$$Vqv = R * Ia$$

= 0.5 in. *56,882 sf

 $12 \\ Vqv = \underline{2,370.08} \text{ cf or } \underline{17,728.20} \text{ gallons}$

NOTE: Per DDOE standards, whichever of the two volume computations is larger, use the larger one for both quantity and quality requirements.

(VOLUME OF CISTERN PROVIDED):

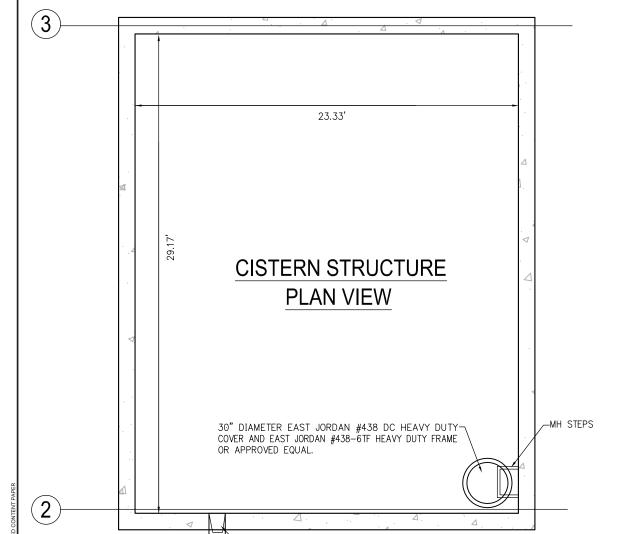
 $\label{eq:Vcistern} \mbox{Vcistern} = \mbox{Length} \ \mbox{Width} \ \mbox{Width} \ \mbox{X Height}$

 $= 29.17' \times 23.33' \times 8.42'$ Vcistern = 5,730.11 cf or 42,861.22 gallons

VOLUME PROVIDED >= VOLUME REQUIRED

VOLUME PROVIDED:5,730.11 cf \geq VOLUME REQUIRED: 2,415 cf

VOLUME OF CISTERN IS GREATER THAN VOLUME REQUIRED THEREFORE THE STRUCTURE SATISFIED THE DDOE REQUIREMENTS.



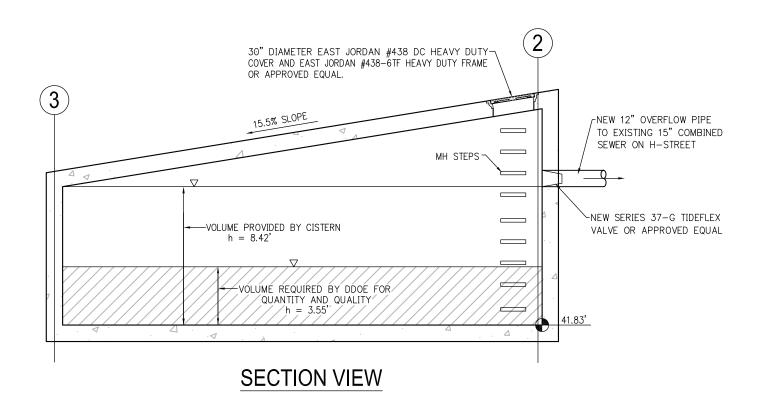
∽NEW SERIES 37-G TIDEFLEX

VALVE OR APPROVED EQUAL

NEW 12" OVERFLOW PIPE~

SEWER ON H-STREET

TO EXISTING 15" COMBINED





WASHINGTON UNIVERSITY

> SCIENCE AND ENGINEERING COMPLEX (SEC)

Square 55 : Washington DC 200

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KEY PLAN:

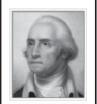


ATE:

SECOND-STAGE PUD APPLICATION

STORM WATER MANAGEMENT PLAN

NUMBER



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SCIENCE AND **ENGINEERING** COMPLEX (SEC)

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KEY PLAN

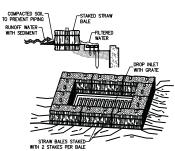
DATE: MARCH 4, 2011

SECOND-STAGE

SEDIMENTATION AND EROSION CONTROL

DETAILS

C-10

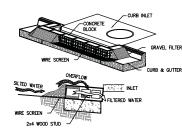


SPECIFIC APPLICATION:
THIS WETHOO OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS
A RELATINELY PLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE
SHEET OR OVERLAND FLOWS (NOT EXCEDING O.S O'S) ARE TYPICAL. THE
WETHOO SHALL NOT APPLY TO MILETS RECEIVEN CONCENTRATED FLOWS, SUCH
AS IN STREET OR HIGHAW MEDIANS.

STRAW BALE DROP INLET SEDIMENT FILTER (NOT TO SCALE)



BURLAP DROP INLET SEDIMENT FILTER



CURB INLET SEDIMENT FILTER

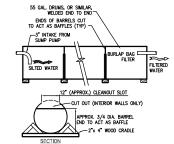
- (NOT TO SCALE)

 1. TWO CONORTE BLOOKS SHALL BE FLACED ON THEIR SIDES ABUTTING THE CURB AT ETHER SIDE OF THE NULLF OPENING.

 2. A 1 NICH BY 4 NICH STUD SHALL BE CUT AND PLACED THROUGH THE OUTER HOLES OF EACH SPACET BLOOK TO HELP KEEP THE FRONT BLOOKS IN THE FRONT OF THE CONORTE BLOOKS SHALL BE FLACED ON THEIR SIDES ANGOSS THE FRONT OF THE FRONT OF THE CONORTE BLOOKS TO THE CONORTE FLOOKS TO PREVENT ON THE PROBLEM SHALL BE FLACED ONET THE OUTSIDE KERTICAL FACE (MERBING) OF THE CONORTE BLOOKS TO PREVENT STONE FROM BION WASHED THROUGH THE HOLES IN THE BLOCKS, CHICKEN MIRE OR HARDWARE CLOTH WITH 1/2—INCH OFFININGS SHALL BLU SEID.

 5. THO TO TIMEE INCH STONE SHALL BE PILED AGAINST THE WIRE TO THE TOP OF THE THE PROBLEMS SHOWS SHOULD SHALL BE USED.
- THE BARGEN AS SHOWN.

 IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONE MUST BE PULLED AWAY FROM THE BLOCKS, CLEANED AND REPLACED.



CONSTRUCTION NOTES:

THE STRUCTURE MAY BE CONSTRUCTED WITH STEEL DRUMS, STURDY WOOD OR OTHER
MATERIAL SUITABLE FOR HANDLING THE PRESSURE EXERTED BY THE VOLUME OF THE

- MATER.

 SOURCE FOR MOUNTAINE FOR PROBLEMS IN PROPERTY.

 THE SEDMENT TANK SHALL BE LOCATED FOR EASY CLEAN-OUT AND DISPOSAL OF THE
 MARPED SEDMENT TANK SHALL BE LOCATED FOR EASY CLEAN-OUT AND DISPOSAL OF THE
 MARPED SEDMENT TANK OF MANUEL THE INTERFERENCE WITH CONSTRUCTION ACTIVITES.

 THE FOLLOWING FORMULA SHALL BE USED TO DETERMINE THE STORAGE VOLUME OF THE
 SEDMENT TANK.
- NT TANK.
 PUMP DISCHARGE (G.P.M.)X16=CUBIC FEET OF STORAGE REQUIRED PUMP DISCHARCE (G.P.M.)XTO=CUBIC FEET OF STOKAGE REQUIRED

 5. ONCE THE WATER LEVEL NEARS THE TOP OF THE TANK, THE PUMP MUST BE SHUT OFF
 WHILE THE TANK DRAINS AND ADDITIONAL CAPACITY IS MADE AVAILABLE.

 6. THE TANK SHALL BE DESIGNED TO ALLOW FOR EMERGENCY FLOW OVER TOP OF THE TANK
- . CLEAN—OUT OF THETANK IS REQUIRED ONCE ONE—THIRD OF THE ORIGINAL CAPACITY IS DEPLETED DUE TO SEDIMENT ACCUMULATION. THE TANK SHALL BE CLEARLY MARKET SHOWING THE CLEAN—OUT POINT.

PORTABLE SEDIMENT TANK



VEHICLE WASH DETAIL 6'-7' <u>a eeeeeee g</u> abinicihiciinid REINFORCED DRAIN WOVEN GEOTETILECONCRETE SPACE FILTER FABRIC

WASH RACK DETAIL

MANTENNACE:
STARLIZE CONSTRUCTION DITRANCE THICKNESS SHALL BE CONSTRUTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON SITE FOR THIS PERPOSE. CRAIN SPACE UNDER WASH RACK SHALL BE MEDT OPEN AT ALL TIMES. DAMAGE TO THE WASH RACK SHALL BE REPARED PRIOR FURTHER USE OF THE RACK. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDMENT LEPOSITED ON PAYED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE CONSTRUCTION VEHICLES SHALL STOW WITH FIRST THE FRONT WHEELS, THEN THE REAR WHEELS ON THE WASH RACK IN ORDER TO BOTH SETS OF WHEELS TO BE HOSSED OFF.

6" MIN.

PLAN VIEW

CONSTRUCTION RAMP SPECIFICATION:

PROFILE

CONSTRUCTION RAMP SPECIFICATION:

1 STINE SET LEE S' STUDE, OR EXAMED REMYGED CONCRETE EQUIVALIDIT SHALL

1 BE RACED AT LEAST OF DEEP ONER THE LENGTH AND WIGHT OF THE ENTRANCE.

2 LEIGHTH- AS REQUIRED, BUT HOU ILESS THAN 50 FEET (SECRET ON A SINGLE RESIDENCE

LOT WHERE A 30 FOOT MINIMUM, LENGTH WOULD APPLY).

3. THICANESS FOOT SETS THEN SIX (6) INCHES.

4. WOTH- TEN (10) FOOT MINIMUM, BUT NOT LESS THAN FULL WOTH OF ALL POINTS OF

INCRESS OF GREESS COLURS.

5. GEOLETILE FABRIC (FLEIR CLOTH) WILL BE PLACED OVER THE BUTIRE AREA PRIOR TO

PLACING OF STORE—THE PLAN APPROVAL AUTOMATY MAY NOT BE REQUIRED SINGLE

FUNDING STORE—THE PLAN APPROVAL AUTOMATY MAY NOT BE REQUIRED SINGLE

6. SURFACE WATER- ALL SURFACE WATER FOWING OR DIVERTED TOWARD CONSTRUCTION

ENTRANCE SHALL BE PURP LANGES THE ENTRANCE. IF PPINES IS MARKACITON.

A MANITONICE. THE ENTRANCE SHALL BE WATER MADE. IF POINTS OF MARKACITON

TRANCINGO OF INDIRE OF SEMBLED HERE PERMITTED.

AND AND CELENOUT OF ANY MEASURES USED TO REPOSENHET. HE MAY REQUIRE

AND/OR CELENOUT OF ANY MEASURES USED TO REPOSEMENT, LISE SEMBLY SHELD,

DROPPED, WASHED OR TRACKED ONTO PUBLIC RICHTS—OF—WAY MUST BE REMOVED.

IMAZDIATELY.
WASHING-WHELS SHALL BE CLEANED TO REMOVE SEDMENT PRIOR TO ENTRANCE ONTO
PUBLIC RICHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA
STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDMENT TRAPPING DEVICE.
PERIODIC MSPECTION AND NEEDED MANTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE

(NOT TO SCALE)

STAKED AND ENTRENCHED STRAW BALE

ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.

2. EACH BALE STAIL EE CHEEGOED IN THE SOLI A HAIMMAN OF (4) INCHES, AND PLACE SO THA'E BRIGHNES ARE HORZONTAL.

3. BALES SHALL BE SECURELLY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BANS ROWEN THROUGH THE BALE. THE FIRST STAKE IN EACH BUD STAKES OR THE THROUGH THE BALE AT AN ANGLE TO FORCE THE BALES TOOLTHER STAKES SHALL BE DOWNEN TURBH WITH THE BALE.

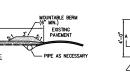
4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

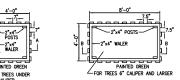
STRAW BALE DIKE

(NOT TO SCALE)

CONSTRUCTION SPECIFICATIONS:



EXISTING
PAVEMENT-

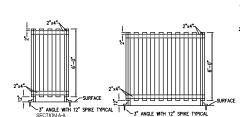


_ POST SHOULD BE A MINIMUM _ 6.0' LONG, STEEL "T" STAKE FENCE MATERIAL MAY BE 14—GAUGE WELDED WIRE OR PLASTIC AXIMUM DISTANCE BETWEEN POSTS 6.0' FOR PLASTIC FENCE 10.0' FOR WELDED WIRE

NOTE:
TREE PROTECTION FENCING MUST BE MAINTAINED THROUGHOUT
CONSTRUCTION.
TREE PROTECTION FENCE

INSTALLATION DETAIL

FENCE HEIGHT 4.0' (1.2m)



TREE PROTECTION NOTES:

TREE PROTECTION NOTES:

1. TREES AS SHOWN NOT HE PIAN TO REMAIN SHALL BE PROTECTED AS SHOWN TO PRESENT THE CARE YEAR OF THE PIAN TO REMAIN SHALL BE PROTECTED AS SHOWN TO PRESENT THE CARE YEAR OF THE PIAN TO REMAIN SHALL BE ERECTED AT EDGE OF PANIC.

2. BOARDS WILL NOT BE PIAN AS SHOWN ON THE PIAN AT OR STREET TREES AT THE CARE, PROTECTION FERNANCA.

3. NO STORAGE OF EQUIPMENT OR CONSTRUCTION MATERIALS SHALL BE ALLOWED WITHIN TREE PROTECTION FENANCA.

4. HEAVEY COUPMENT OFFATORS WILL BE CAUTIONMED TO AVOID DAMAGE TO EXISTING THE TRUMS AND ROYS DUMBE LAND EXPOSED ROYS AND LINES DAMAGE DUMBER COUPMENT OFFATIONS WILL BE CARED FOR A PRESCRIBED BY A FORESTER OF LINES DIME COUPMENT OFFATIONS WILL BE CARED FOR A PRESCRIBED BY A FORESTER OF LINES DESIRED RESENSED HE FORESTER OF LOOKING THE PROTECTION FOR THE PIAN SHALL BE UTILIZED FOR TREES BEING RETAINED AND SHALL BE LOCATED AT THE ORD PLAN AS SHOWN ON THE PLAN.

3. DURING THE FIRST TWO SAMMERS FOLLOWING CONSTRUCTION, IT IS DESIREABLE HAT THE TREES RECEIVE ADDRESS THE PAIR THE PIAN THE PIAN AS SHOWN ON THE PLAN.

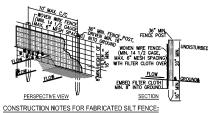
5. THE TRINGS AND EXPOSED ROYS AND LINES DAMAGED FOR EXPRESS BEING RETAINED AND SHALL BE UTILIZED FOR TREES BEING RETAINED AND SHALL BE LOCATED AT THE ORD PLAN AND SHOWN ON AS SHOWN ON THE PLAN.

5. DURING THE FIRST TWO SAMMERS FOLLOWING CONSTRUCTION, IT IS DESIREABLE THAT THE TREES RECEIVE ADDRESS OF WATER.

TYPICAL TREES PROTECTION

FENCING THE FIRST TWO SAMMERS FOLLOWING CONSTRUCTION, IT IS DESIREABLE THAT THE TREES RECEIVE ADDRESS OF WATER.

TYPICAL TREES THO SAMMERS FOLLOWING CONSTRUCTION. FENCING

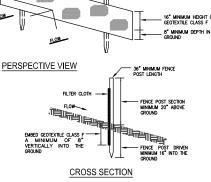


POSTS: STEEL EITHER T OR U TYPE OR 2"

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. FENCE: WOVEN WIRE, 14 1/2 GAGE 6" MAX. MESH OPENING
- 2. FILTER COURT OF BE PASTENED SECURELY TO WORN WIRE FENCE WITH THES SPACED EVERY 24" AT TOP AND MID SECTION.

 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLIED.
- SILT FENCE (NOT TO SCALE)

FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL



36" MINIMIM LENGTH FENCE POST, DRIVEN A MINIMUM OF 16" INTO

SECTION B TOP VIEW

JOINING TWO ADJACENT SILT FENCE SECTIONS CONSTRUCTION SPECIFICATION:

1. FENCE POSTS SHALL BE A MINIMUM OF 36" LONG FRIEN 16" MINIMUM INTO THE GROUND. WOOD POSTS SHALL BE 11/2" 11/2" SQARE (MINIMUM) CUT, OR 13/4" OUMETER (MINIMUM) ROUND AND SHALL BE COFF SOUND QUALUT! HARDWOOD, STEEL POSTS WILL BE STANDARD T OR U SECTION WEGHTING NOT LESS THAN 1.00 POND PER LIBEAR POOT.

GEOTEXTILE SHALL BE FASTENDE SUCRILY TO FACH FENCE POST WITH WRE TES OR STABLES AT TOP AND IMD-SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F: TESLE STEEDENH 50 BS/N (MIN.)

TEST: ASTM 0-4595
FLOW RYALL DESCRIPTION OF THE STEEL SHALL DISTRIBUTE O

3. WHERE PIOS OF COTENTIE, FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND STARLED TO PREVENT SEDMENT BYMASS.

SLIT FENCE SHALL BE INSPECTED ATTER EACH RAINFALL EVENT AND MAINTAINED WHEN BULGES COCUR OR R OF WHEN SEDMENT ACCUMATION REACHED 30 THE FABRIC HEIGHT.

SILT FENCE DESIGN CRITERIA:			
SLOPE STEEPNESS:	SLOPE LENGTH (MAX.):	SILT FENCE LENGTH (MAX.):	
FLATTER THAN 50:1	UNLIMITED	UNLIMITED	
50:1 TO 10:1	125 FEET	1,000 FEET	
10:1 TO 5:1	100 FEET	750 FEET	
5:1 TO 3:1	60 FEET	500 FEET	
3:1 TO 2:1	40 FEET	250 FEET	
2:1 AND STEEPER	20 FEET	125 FEET	
TE:			

NOTE:

IN AREAS OF LESS THAN 2% SLOPE AND SANDY SOILS (USDA GENERAL CLASSIFICATION SYSTEM, SOIL CLASS A) MAXIMUM SLOPE LENGTH AND SLIT FORCE WILL BE UNLIMITED. IN THESE AREAS A SLIT FENCE MAY BE THE OUTLY PERMITER CONTROL REQUIRED.

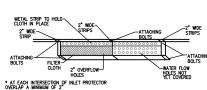
SILT FENCE INSTALLATION DETAIL

DEFINITION
TEMPORARY GROUND COVER CONSISTING OF BROKEN BRICK (1/2 PIECE OR SMALLER)
PLACED OVER DENUISED EARTH.

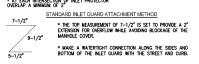
PURPOSE BRICKBATS PROVIDE A TEMPORARY GROUND COVER OVER DENUDED URBAN EARTH TO PREVENT THE TRANSPORTATION OF SEDIMENT FROM THE SITE. CONDITIONS WHEN PRACTICE APPLIES
BRICKBATS MAY BE USED ON ANY SITE IN NEED OF TEMPORARY GROUND COVER.

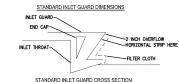
DESIGN CRITERIA
THE BRICKBATS SHALL BE PLACED TO A DEPTH OF 3 INCHES TO 4 INCHES COVERING THE PRINCED EARTH ON THE SITE, THEN COMPACTED AND LEVELED.





(NOT TO SCALE)





GRADE INLET GUARD

STANDARD EROSION AND SEDIMENT CONTROL MEASURES AND SEQUENCE: ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING

- STEP IN GRADING.

 PROVIDE TEMPORARY STONE CONSTRUCTION ENTRANCE WHERE SHOWN, PROVIDE WATER SOURCE AND HOSE TO CLEAN ALL EQUIPMENT LEAVING SITE.

 INSTALL SLIT FENCE AS SHOWN.

 NO DISTURBED AREA WILL BE DENIDED FOR MORE THAN 7 CALENDAR DAYS. INSTALL THE NECESSARY THEOPRARY OR PREVAMENT VEGETATIVE STABILIZATION MEASURES TO ACHIEVE ADEQUATE EROSION AND SEDIMENT CONTROL.

 ALL CONSTRUCTION TO BE INSPECTED DATAY BY THE CONTRACTOR, AND ANY DMANAGED SLITATION OR EROSION CONTROL DELYDECTS ON MEASURES WILL BE REPAIRED AT THE CLOSE OF THE DAY.

LIST OF STANDARD SYMBOLS

PIPE SLOPE DRAIN

SUBSURFACE DRAIN

SCE

GSS-2

PSD-12

GSS-3

PSD-12

===

 \bigcirc

□⊕ **(SP)**

UNED WATERWAY

- ALL SILT FENCE TO BE MAINTAINED IN WORKING CONDITION STABILIZED CONSTRUCTION ENTRANCES TO BE PERIODICALLY SUPPLEMENTED WITH ADDITIONAL STONE AS NEEDED.
- CONTROLS CAN BE REMOVED AFTER THEIR CONTRIBUTING BASINS HAVE BEEN PERMANENTLY STABILIZED, AND APPROVAL OF INSPECTOR IS OBTAINED.

SILTATION EROSION CONTROL NOTES:

ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE INSTALLED BEFORE THE START OF ANY EXOCATION AND/OF CONSTRUCTION. SHE'PS SHADARDS AND SECRETICATIONS FOR SOIL EROSION FURTHER EROSION CONTROL MEASURES ARE NICESSARY. THE SAME SHALL BE PROVIDED.
 ALL DEBRIS IS TO BE REMOVED FROM THE SITE.
 ALL DEBRIS IS TO SETECT SHALL BE SHEFT CLEAN AT ALL THES DURING EXCANTION AND CONSTRUCTION.

- 3. ALLEY AND / OR STREET SHALL BE SMEPT CLEAN AT ALL TIMES DURING EXCAVATION AND CONSTRUCTION.

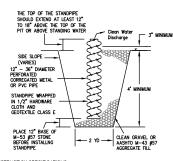
 A. ALL SEDMENT AND REGISSION CONTROL MEASURES TO BE ASSPCTED DALLY BY THE CONTRACTOR, ANY DAMAGED DENGY GON MEASURE WILL BE REPURED OR REPLACED BY THE CLOSE OF DAY OR AS DRECTED BY THE ARCHITECT.

 ALL VEHICLES LEAVING THE SITE SHALL EXIT THROUGH THE CONSTRUCTION ENTERANCE ONLY AND SHALL BE WASHED DOWN TO REMOVE MUD FROM TRESS BEFORE ENTERING THE STREET. CONSTRUCTION ENTERANCE OR DE MAINTAINED IN GOOD WORKING CONSTITUCTION.

 B. ALL CATCH BASING AND AREA ORAINS SHALL BE PROTECTED DURING EXCAVATION AND CONSTRUCTION.

 IF ANY CATCH BASING OR DATA DRIVEN EXCENSIVE OR RESULT OF EXCAVATION OR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS MANIFOLD THE CLEANING.

- B. ALL DISTURBED AREAS WITHIN THE LIMIT OF DISTURBANCE BOUNDARY NOT SHOWN TO BE PAVED SHALL BE SEEDED OR SODDED AS PER DC SPECIFICATIONS WITHIN SEVEN DAYS OF DISTURBANCE. WHEN SEDIMENT TRAP/SEDIMENT TANK HAS REACHED 67% CAPACITY, CLEAN OUT OF SAME IS REQUIRE
 0. ANY STOCKPLING, REGARDLESS OF LOCATION ON SITE SHALL BE STABILIZED WITHIN 14 DAYS AND
 COVERED WITH PLASTIC OR CANNAS, AFTER ITS ESTABLESHMENT AND FOR THE DURACTION OF THE PROACE
- 11. AFTER RAZE OR DIGIOS, THERE IS NEED FOR GROUND COVER TO PREVENT ERISION AND SEDIMENT
 11. AFTER RAZE OR DIGIOS, THERE IS NEED FOR GROUND COVER TO PREVENT ERISION AND SEDIMENT
 12. AT THE COMPLETION OF CONSTRUCTION PROJECT AND AFTER THE D. C. ROSGION AND SEDIMENT CONTROL
 NISPECTOR APPROVAL, ALL TEMPORARY SILATION, SEDIMENTATION AND BROSSION CONTROL MEASURES AND
 DEVICES SHALL BE REMOVED AND ALL DEMONDER AHEAS SHALL BE PERIMAENTLY STRAILED.



CONSTRUCTION SPECIFICATIONS:

1. PIT DIMENSIONS ARE OPTIONAL, WITH THE MINIMUM DIAMETER BEING 2 TIMES THE STANDPIPE DIAMETER

1. HI DIMENSIONS AND OPPOINT, WITH HE MINIMUM DIAME BY BEING 2 THES THE ANAIHOPE.

2. THE STRONGES SHOULD BE CONSTRUCTED BY REPSORATION A 12"-2." DIAMETER CORRECATED OF PLY OPPE, THEN WRAPPING WITH 1/2" HARDWARE CO.DH AND GOTDETLE CLASS E. THE PERFORATIONS SHALL BE 1/2" AS SILTS OR 1" DIAMETER HOLES.

3. A BASE OF FILTER MATERIAL CONSISTING OF CLEM GRAVEL OR 16"S TIONE SHOULD BE PAUCED. IN THE PIT TO A DEPTH OF 12", A THER INSTALLING THE STANDEPE, THE TIARROUNDING THE STANDEPE SHOULD THEN BE BACCFILLED WITH THE SAME FILTER MATERIAL.

1. THE STANDEPE SHOULD EXTEND 12", 10" A BOOK THE OF THE PIT OF THE RISER CREST ELEXATION (BASIN DEWATERNO ONLY) AND THE FILTER MATERIAL. SHOULD EXTEND 3" MINIMUM ABOVE THE ATHER MATERIAL THE STANDER OF THE ELEXATION.

5. FI DISCHARGE WILL BE PURPED DIRECTLY TO A STORM DRAINABLE SYSTEM. THE STANDEPE SHOULD EXTEND STANDER WAS TRAILAINTON. FO ESSEED, 1/4"-1/2" FROM THE STANDEPE SHOULD BEFORE CO, OTHER STANDER STANDARD WAS TRAILAINTON. FO ESSEED, 1/4"-1/2" FROM THE STANDEPE SHOULD BE THE COTTE BEFORE THE STANDER WAS TRAILAINTON. FO ESSEED, 1/4"-1/2" FROM THE STANDER OF THE STANDER OF THE STANDER OF THE PIT OF T